

Abstract of the Disclosure

SUB B17

A method for calculating and recalculating hardware requirements for a database management system computer. One method includes establishing default values for hardware utilization limits such as percent utilization of processors or network interface cards. Working copies of the hardware utilization limits can be initialized to the default utilization limits. Workload requirements can be obtained from a human user. In one method, the workload requirements are obtained as a transactions per second value. In another embodiment, the workload requirements are obtained as a detailed list of transactions, expected execution rate of those transactions, and the composition of those transactions, including SQL statement type and parameters upon which those statements operate. The hardware requirements are then calculated so as to be within the hardware utilization limits, and can include discrete numbers of required hardware components such as processors and network interface cards. The user is allowed to enter new resource utilization limits and the required hardware resources calculated again. In some uses of the recalculation, the number of hardware components may be changed to remain within the new under utilization limits or over utilization limits.